Anand® MEDICAIDS
PRIVATE LIMITED

Instruction Cum User Manual For **EUROVAC**

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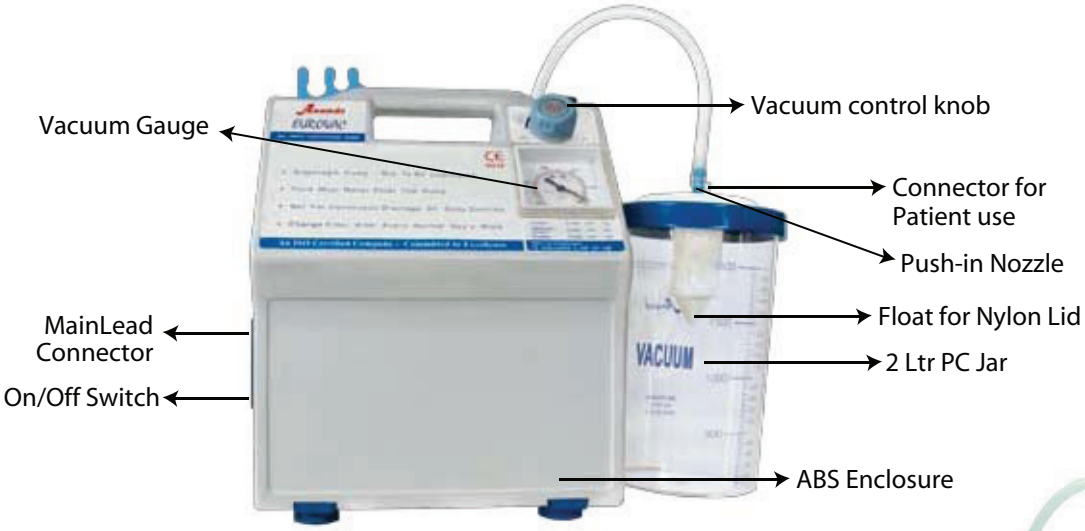

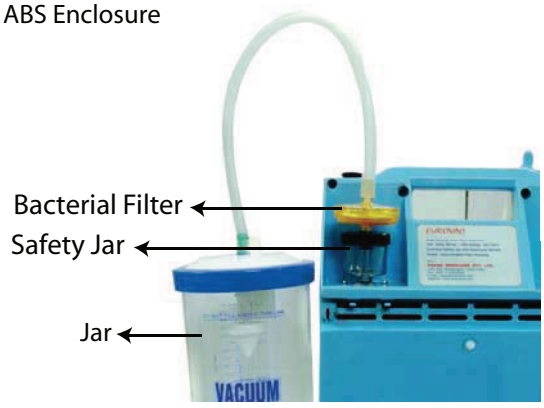

Back Side

Dear Customer,

Congratulations on your purchase of this versatile and need oriented suction unit. It will serve you well for years, if properly looked after. The medical professions have long felt the need for a lightweight, easy-to-move, safe, dependable and easy-to-regulate suction unit. EUROVAC fills this healthcare need to a degree unmatched by any other unit. It is designed for use in hospitals, nursing homes doctor's offices, pediatric care, ICU's and home care. Non corrosive and shockproof enclosure is pressure moulded in engineering plastic ABS giving smooth and easy-to-clean surface.

ASSEMBLY

The pump is housed in the enclosure. To fasten it well with the base two black head screws (used as holdfast for transportation at the bottom of the unit) MUST be removed by rotating with the aid of a simple hand tool.

The bacterial filter is slipped into the safety jar (at the back) and the other end is connected to the nozzle marked "Vacuum" on the jar lid. The second nozzle is marked "patient" and the tubing from this goes to the patient. The release valve for adjusting the negative pressure and the vacuum gauge are on the panel. An on/off switch cum pilot lamp, fuse and the removable main lead connector are on the side.

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The EUROVAC is a versatile suction unit with minimal installation efforts. This section contains information on installing the unit.

1. Connect the short silicone tube, marked as (A) to the two litre plastic jar lid marked as (B) in the figure above.

2. Safety jar with filter on the top are fitted at the back (Fig. on page 1). Connect the other end of the tube A to the filter at the back of the unit.

3. Connect the long silicone tube to the nozzle marked Patient on the two litre plastic jar lid.

4. Attach the power cord to the socket on the side and connect the plug to the electrical mains supply.

5. Switch the unit on and it is ready for use.

Before you turn on the unit, please ensure that:
1. 'O' ring on push-in connector and safety jar are not worn out.
2. Jars are checked for possible crack or flawed spots. Any defect can result in implosion under vacuum.
3. Check the bacterial filter, and change the filter element if necessary. The housing must be flip tightened.
4. The lids and tube are tightly placed on the jars. To avoid leakage the push-in and angular connectors must be inserted as far as the stop. While unplugging, twist and pull.
5. The main power supply is well earthed. In case of fluctuation, use voltage stabilizer/corrector.
6. The vacuum control knob is not loose. It must be fully tightened clockwise.

TECHNICAL

Housing: Engineering plastic moulded, shock-resistant ABS with 2 size hooks to hold tube.
Capacity: -575mm Hg ± 10 at 25 ltrs/min.
Pump type: Single Oil-free diaphragm pump mechanism provides reduced maintenance cost.
Jar: Wide mouthed autoclavable 2 ltr, collection jar (Polycarbonate)
Tubing: 8 mm ID x 2 mtr (Silicon)
Vacuum Gauge: 6.25 cms (2.5 inch). 0-760mm Hg calibration.
Power: 220V AC, 50 Hz, 125 watts. (110V on request)
Dimension & Weight: 20 x 42 x 36 cms. 7.5 kg.

VACUUM AT ALTITUDES

The specified maximum vacuum refers to sea level. According to local conditions and barometric pressure, slight deviations in vacuum reading may be noted. The table below shows several factors, by which the indicated maximum vacuum value must be multiplied, according to the altitude of location where the measurement is carried out.

Location/Maximum Vacuum

Location	Sea level	1000m	2000m	4000m
Factor	1.00	0.88	0.78	0.60

GUIDELINES FOR USE

Safety Jar: Safety jar with electronic overflow monitoring sensor and bacterial filter is at the back.

Negative Pressure: Before the unit is put to use, required vacuum must be set by occluding the safety jar nozzle and controlling the release valve. Fully tightened (clockwise) vacuum control knob means full vacuum.

Jars/Tubings: The material of the jars polycarbonate (PC) is superior to glass. It is less fragile when subjected to impact and less sensitive to temperature shock. PC is resistant up to 120°c provided it is not subjected to any physical loading.
As the flow rate is high 3/4th filling of the jar is recommended. The lid has a built-in antifrothing device. The jar is easier to clean if a little water or disinfectant is put into it prior to suction operation. The safety jar must, however, remain dry. Tubing after use can be brittle and must be changed.

2 Ltr PC Jar

Cleaning and Disinfecting: After each use, jars, lids, overflow cut off valve, catheters, etc. should be cleaned thoroughly. When cleaning is necessary after infective fluid has been evacuated, the jars, lids, cut off valve and tubing can be sterilized by autoclaving upto 120° C for 20 minutes. Alkaline cleaning agents and disinfectants based on phenyel may not be used.
Adherence to hospital directives on hygiene is of prime importance. The instructions provided by the suppliers of cleaning agents as well as by the manufacturers of sterilization and/or disinfection units must also be followed, where application, temperature, process duration and airing, etc. are concerned.

Bacterial Filter

PUMP

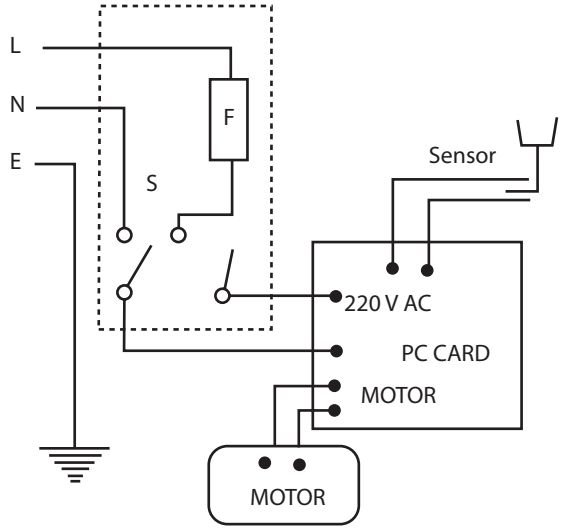
The unit fitted with Diaphragm type oil-free pump, provides reduced maintenance cost.
A Open the back plate of the unit with the aid of an allen key provided, and disconnect the tube from the inlet and outlet points on the pump housing (Fig. A).
B Unscrew the 2 hexa bolts from the bottom of the unit and take out the motorized pump fitted on (and together with) the platform.
C The fly valves are fitted (Fig. C) in the top which can be opened. The valve and sieve are alternately fitted one upon the other in the two nozals making one for vacuum and the other for outlet. The diaphragm is fitted below the top plate (Fig. B) and over the eccentrically rotated came. Just wipe clean these parts and set the unit again.
D Please run the unit and see its satisfactory functioning before the back plate is screwed up.
Unlike the rotary design, **NO LUBRICATION IS REQUIRED IN THIS PUMP.**

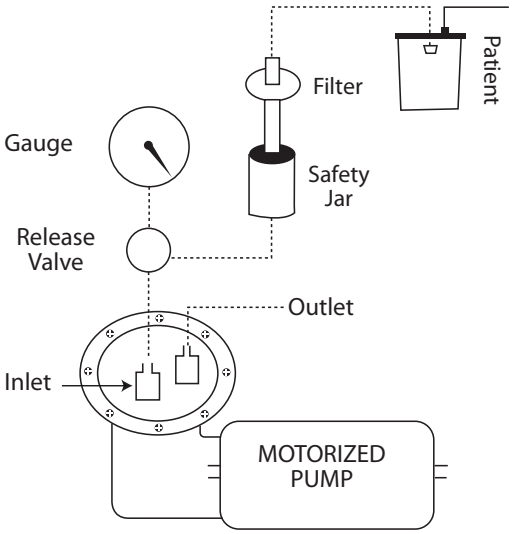
The unit has not to be tampered with by any mechanic other than our factory engineer, or the person authorized.

Fig. A

Fig. B

Fig. C





TROUBLE SHOOTING:

Problem	**Possible source of trouble**	**Check/Action to be taken**
Motor does Not Run	Power Supply	Voltage, power socket
	Main switch	Set at "ON"
	Electrical cord	Plug type, plug connections, damaged cord
	Check if the safety jar is activated. Open the safety jar, clean & dry the jar and replace the cap for re-use	
	The blood has entered the pump. The remedy is given above under pump cleaning	
Inadequate Suction Performance	Leak within the pump or in the external suction circuit	Isolate the source of trouble by carrying out the checks outlined.
	External cause: Push-in connector O-rings/Lid gasket	Condition
	Push-in angular connectors	No Leaks at tube ends. Push in as far as stop.
	Release Valve	The Knob should be tightly placed
	Tubing	Cracks, brittle areas
	Lids	Airtight fit jars and Safety jar
	Jars	Condition, Possible cracked edges,hairline cracks
	Bacteria filter housing (on Safety jar top)	Condition and absence of leaks
	Filter paper	Condition, position of housing
Vacuum gauge indicates a vacuum Pump does not suck, however	Blockage or kink in tubing within the pump or in the external suction circuit	Isolate source of trouble as follows: Remove the safety jar, leave the suction connection open. If the vacuum gauge now indicates zero vacuum, the cause is external
	External cause: Bacteria filter, safety jar, overflow valve in the lid, (float valve) push-in connectors, tubing etc.	Investigate the whole external suction circuit for blockage (s), float valve sticking, kinked tubing and rectify. If the vacuum gauge still indicates a vacuum, the cause is internal

TERMS OF WARRANTY

Anand Medicaids Private Limited warranty the high quality and workmanship of each Anand's HI-VAC for a period of one year subsequent to the date of delivery by the company. During this period, faulty material will be replaced free of charge. This warranty does not extend to components that are subject to wear and tear in the course of normal operation or due to improper treatment/maintenance as per instructions.

Further conditions in accordance with international standard IEC 601.1 item 6.8.2b.

The manufacturer is only responsible for effects on the safety, the reliability and the performance of the appliance if

• Installation, additions, adjustments, modifications or repairs are carried out by personnel authorized by the manufacturer

• The electrical installations within the room concerned satisfy the requirements laid down by IEC.

• The appliance is used in full accordance with the instruction manual which is solely a guide and no substitute for professional training. The safe and effective use of this product largely depends on the skill of the operator. We are not liable for any damages due to mishandling or improper and unauthorised use.

• The company reserve the right to change technical specifications, designations and catalogue numbers without prior notice.

Note

Ensure that your electrical wirings are well earthed with 1 line and 1 neutral phase and your voltage is between 220V 240V. 50 Hz.

Ensure that the suction unit should not be lifted above human body level.

Dispose of used product/packaging in safe manner so as not to harm stray cattle, children and environment.

WARRANTY CARD

Model No. ----------

SN ----------

Date of Purchase: ----------

Dealer Name: ----------

Stamp :

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EC REP

KALEIDOS SH. VIA PONTIOA, 4 2012, MILANO, ITALY.